

FastSet™ Water-Stop Cement

Divisions 3 & 7

03 01 00 Maintenance of Concrete
07 16 00 Cementitious Waterproofing

Product Description

High Performance Cement FastSet™ Water-Stop Cement is a rapid setting, high strength repair material designed to plug leaks instantly in concrete and masonry.

Product Use

FastSet™ Water-Stop Cement will block running water when application is made to masonry or concrete surfaces. This special formulation allows the product to obtain high strength and rapid setting while repelling water. FastSet™ Water-Stop Cement solves leakage problems wherever active water is present, in all masonry and concrete above and below grade. Use FastSet™ Water-Stop Cement for sealing around concrete pipes and for plugging leaks in:

- Foundation and retaining walls
- Chimneys
- Swimming pools, fountains and cisterns

Size

20 lb (9.1 kg) pails

Yield

Each 20 lb (9.1 kg) pail of FastSet™ Water-Stop Cement will yield 0.17 cu ft (4.8 L).

Technical Data

APPLICABLE STANDARDS

ASTM International

- ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- ASTM C191 Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle

PHYSICAL/CHEMICAL PROPERTIES

FastSet™ Water-Stop Cement provides typical physical properties as shown in Table 1, when tested in accordance with ASTM C191 and ASTM C109.



Table 1 Typical Physical Properties

Compressive strength, ASTM C 109 Modified	
2 hours	1000 psi (6.9 MPa)
24 hours	2500 psi (17.3 MPa)
7 days	4500 psi (31.1 MPa)
28 days	5500 psi (38.0 MPa)
Final set time	60-90 seconds

Installation

SURFACE PREPARATION

All patch areas should be free of loose material, dirt, dust, algae and mildew. Preparation should include enlarging small cracks and holes. Edges must be square or undercut; avoid V-shape cuts.

MIXING

- **WEAR IMPERVIOUS GLOVES**, such as nitrile when handling product.
- Blend 4 1/2 parts FastSet™ Water-Stop Cement to 1 part water, by weight. Quickly roll the mixture in your hands to mix.
- Do not mix more material than can be used in -1 minute. In most cases, limit batch size to 4 - 6 oz (113 - 170 g) of powder. Using 4-1/2 oz (128 g) of powder and 1 oz (28 g) of water will provide a golf ball size mix, which is appropriate for most applications.

METHODS

Starting at the top of the crack and working down, apply FastSet™ Water-Stop Cement while maintaining light pressure on the patch. Maintain pressure until initial set begins and the leaking is stopped. If more than one application is needed to fill the active leak, each application must be made before the prior one has set completely. Excess material can be removed to form a smooth surface.

CURING

No curing membranes or compounds are required.

Precautions

- **Wear impervious gloves**, such as nitrile when handling product.
- Mix no more than can be used in 1 minute
- Hot temperatures will reduce the setting time. At colder temperatures, below 50 degrees F (10 degrees C), use warm water.
- Product is only for use to fill active leaks in cracks or holes; it is not for application to flat surfaces. Not for resurfacing or coating a wall.

Warranty

The QUIKRETE® Companies warrant this product to be of merchantable quality when used or applied in accordance with the instructions herein. The product is not warranted as suitable for any purpose or use other than the general purpose for which it is intended. Liability under this warranty is limited to the replacement of its product (as purchased) found to be defective, or at the shipping companies' option, to refund the purchase price. In the event of a claim under this warranty, notice must be given to The QUIKRETE® Companies in writing at: One Securities Centre, 3490 Piedmont Road, Suite 1300, Atlanta, GA 30305. This limited warranty is issued and accepted in lieu of all other express warranties and expressly excludes liability for consequential damages.

Refer to www.highperformancecement.com for the most current technical data, MSDS, and guide specifications.